Jein Mc Mellon, P&



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

April 3, 2006

MEMORANDUM TO:

All Holders of July, 2006 Edition of the

Roadway Standard Drawings Book

FROM:

J. V. Barbour, PE

State Project Services Engineer

SUBJECT:

New and Revised Standard Drawings

This memo informs all holders of revisions made for the July 2006 edition of the Roadway Standard Drawings. The new edition will be effective with the July 2006 letting. The 2006 standard drawings are English only.

Listed below are new standard drawings and standard drawings that have been deleted or revised since the January 2002 edition of the Roadway Standard Drawings.

NEW STANDARDS:

STANDARD <u>DRAWING</u>	<u>SHEETS</u>	TITLE
840.13	1	CONCRETE BRIDGE APPROACH DROP INLET
846.03	2	FUNNEL DRAIN INSTALLATION
846.04	1	DROP INLET IN SHOULDER BERM GUTTER
848.06	5	WHEELCHAIR RAMPS – EXISTING SIDEWALKS
862.04	1	ANCHORING OF GUARDRAIL – B-77 AND B-83
901.80	1	SIGN MOUNTING DETAILS – TYPE A AND TYPE B SIGNS
1180.01	1	SKINNY DRUM
1604.01	1	RAILROAD EROSION CONTROL DETAIL

1630.06	1	SPECIAL STILLING BASIN
1700.01	1	ELECTRICAL SERVICE OPTIONS
1700.02	1	ELECTRICAL SERVICE GROUNDING
1751.01	2	CONTROLLERS AND CABINETS
1751.02	1	CONTROLLERS AND CABINETS

REVISED/DELETED STANDARDS:

STANDARD <u>DRAWING</u>	SHEET	TITLE/REVISION
200.03	1	METHOD OF CLEARING – METHOD III -CHANGED DIMENSION AND NO BERM DITCH ARROW.
225.01	1	GUIDE FOR GRADING SUBGRADE -ADDED NOTES AND MODIFIED SECTION DETAILS.
225.03	6	DECELERATION AND ACCELERATION LANES -CHANGED 7" TO 7' FOR DECELERATION LANE DETAIL
422.10	7	REINFORCED BRIDGE APPROACH FILLS -ADDED ADDITIONAL SHEETS TO SHOW 15' AND 25' APPROACH FILL OPTIONS
560.03	5	METHOD OF SHOULDER CONSTRUCTION -FIXED ARROWHEADS AND ADDED SHEET FOR CONCRETE SHOULDER METHOD II.
610.03	1	GUIDE FOR PAVING SHOULDERS UNDER BRIDGES – METHOD III -ADDED 10' PAVED SHOULDER ON PLAN VIEW DETAIL.
610.04	1	ASPHALT WEARING SURFACE ON APPROACH SLAB -DELETED STANDARD.
654.01	1	PAVEMENT REPAIRS -DELETED SHEET 1 OF 2.

665.01	2	ASPHALT SHOULDERS MILLED RUMBLE STRIPS -CHANGED OFFSET OF RUMBLE STRIP TO 6" FROM EDGE OF PAVEMENT. ADDED SHEET 2.
700.01	2	CONCRETE PAVEMENT JOINTS -CHANGED DETAILS AND NOTES ON BOTH SHEETS
700.02	1	EXPANSION JOINT LAYOUT -CHANGED JOINT SPACING AND DETAILS
700.03	2	DOWEL ASSEMBLY -REMOVED GRABBER SCREW DETAIL AND CHANGED OTHER DETAILS AND NOTES.
720.01	3	CONCRETE SHOULDERS -CHANGED ROLLED STRIPS TO CONTINUOUS RUMBLE STRIP. CHANGED OFFSET FROM EDGE OF TRAVEL LANE TO 6"ADDED MILLED OPTION TO DETAILS. ADDED RAMP LAYOUT SHEET
820.01	1	FUNNEL AND FUNNEL DRAIN -CHANGED THICKNESS OF METAL FUNNEL FROM 1/8" TO 12 GAUGE. CHANGED NOTE FOR 12" STUB
820.04	3	DRAIN INSTALLATION IN SHOULDER BERM GUTTER -CHANGED SHEETS 1 AND 2 TO STD. 846.03. CHANGED SHEET 3 TO STD. 846.04
838.02	1	CONCRETE ENDWALL AND SLUICE GATE -CHANGED LETTERING ON SLUICE GATE.
838.34	2	REINFORCED CONCRETE ENDWALL – FOR DOUBLE AND TRIPLE 66" PIPE -PUT IN DIMENSION THAT WAS LEFT OFF SECTION BB.
840.01	2	BRICK CATCH BASIN -SHEET 1: CHANGED NOTES
840.03	3	FRAMES, GRATES, AND HOODS FOR USE ON STANDARD CATCH BASINS -SHEET 1: ADDED ARROWHEADS

840.04	2	CONCRETE OPEN THROAT CATCH BASIN -CHANGED TITLE OF STANDARD.
840.05	2	BRICK OPEN THROAT CATCH BASIN -CHANGED TITLE OF STANDARD.
840.17	2	CONCRETE MEDIAN DROP INLET TYPE 'A' DELETED CONCRETE APRON NOTE.
840.18	1	CONCRETE MEDIAN DROP INLET TYPE 'B' -DELETED CONCRETE APRON NOTE.
840.19	1	CONCRETE MEDIAN DROP INLET TYPE 'D' -DELETED CONCRETE APRON NOTE.
840.26	2	BRICK MEDIAN DROP INLET TYPE 'A' -DELETED CONCRETE APRON NOTE.
840.27	1	BRICK MEDIAN DROP INLET TYPE 'B' -DELETED CONCRETE APRON NOTE.
840.28	1	BRICK MEDIAN DROP INLET TYPE 'D' -DELETED CONCRETE APRON NOTE.
840.34	2	TRAFFIC BEARING JUNCTION BOX -REMOVED DOWEL 'C'BAR FROM BOTH SHEETS.
840.35	2	TRAFFIC BEARING GRATED DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES -CHANGED TITLE OF STANDARD AND ADDED TYPE AA CONCRETE TO NOTES.
840.36	2	TRAFFIC BEARING GRATED DROP INLET FOR STEEL DOUBLE FRAME AND GRATES -CHANGED TITLE OF STANDARD.
840.45	2	PRECAST DRAINAGE STRUCTURE -CHANGED STEPS NOTE
840.46	. 2	TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE - CHANGED NOTES
842.01	1	CONCRETE AND BRICK RETAINING WALLS -DELETED STANDARD

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842.02	1	CONCRETE AND BRICK RETAINING WALLS -DELETED STANDARD
842.03	1	CONCRETE AND BRICK RETAINING WALLS -DELETED STANDARD
844.01	1	CONCRETE STEPS -DELETED STANDARD
844.02	1 .	BRICK MASONRY STEPS -DELETED STANDARD
846.02	1	DROP INLET INSTALLATION IN EXPRESSWAY GUTTER -CHANGED TITLE OF STANDARD AND ADDED DETAILS.
848.02	2	DRIVEWAY TURNOUT RADIUS TYPE -ADDED SHEET 2 WITH MORE DRIVEWAY GRADE INFORMATION
848.03	2	DRIVEWAY TURNOUT – DROP CURB TYPE -ADDED SHEET 2 WITH MORE DRIVEWAY GRADE INFORMATION
848.05	4	WHEELCHAIR RAMP – CURB CUT -CHANGED DETAILS TO SHOW TRUNCATED DOMES. CHANGED SPACING ON DOMES. ADDED ADDITIONAL SHEET. DELETED DETAILS FROM SHEET 3.
852.04	1	METHOD FROM PLACEMENT OF DROP INLETS IN GRASSED MEDIAN -ADDED CONCRETE APRON NOTE AND REMOVED PER FROM PREVIOUS NOTE
852.05	1	MEDIAN CURB FOR CATCH BASIN -ADDED CONCRETE APRON NOTE AND REMOVED PER FROM PREVIOUS NOTE
852.06	1	METHOD FROM PLACEMENT OF DROP INLETS IN ISLANDS -ADDED CONCRETE APRON NOTE AND REMOVED PER FROM PREVIOUS NOTE

852.10	1	MEDIAN CONSTRUCTION - WITH CURB AND GUTTER -CHANGED ISLAND COVER TO 4". CHANGED NOTES FOR BASE UNDER ISLAND COVER
853.01	1	CONCRETE GLARE SCREEN -DELETED STANDARD
854.04	2	CONCRETE MEDIAN BARRIER PRECAST PERMANENT -CHANGED PIN AND LOOP CONNECTIONS. CHANGED REINFORCING STEEL. CHANGED CONNECTOR PIN.
857.01	8	PRECAST REINFORCED CONCRETE BARRIER -SHEET 1: DELETED -SHEET 2: CHANGED GUARDRAIL
862.01	11	GUARDRAIL PLACEMENT -SHEET 9: CHANGED CLEAR SPAN DETAIL TO CONFORM TO NCHRP-350.
862.02	7	GUARDRAIL INSTALLATION -SHEET 1: CHANGED DIMENSIONS AND NOTES IN CAT-1 ASSEMBLY DETAIL -SHEET 2: CHANGED DIMENSIONS AND NOTES IN AT-1 ASSEMBLY DETAIL -SHEET 4: CHANGED DETAILS AND DIMENSIONS FOR WOOD POSTS.

862.03	9	STRUCTURE ANCHOR UNITS -SHEET 1: CHANGED TO TYPE II FOR 15' APPROACH SLAB. MOVED OLD DETAILS TO SHEET 9 -SHEET 2: CHANGED TO TYPE III FOR 25' APPROACH SLAB -SHEET 3: NEW SHEET – TYPE III FOR 15' APPROACH SLAB -SHEET 4: RENUMBERED AND CHANGED DETAILS. TYPE III FOR 25' APPROACH SLABSHEET 5: DELETED TYPE XI MODIFIED WITH RUB RAILSHEET 6: NEW B-77 ANCHOR UNIT -SHEET 7: DETAILS FOR B-77 ANCHOR UNIT -SHEET 8: NEW B-83 ANCHOR UNIT -SHEET 9: DETAILS FROM PREVIOUS SHEET 1
865.01	12	CABLE GUIDERAIL -CHANGED PROTECTION OF MEDIAN HAZARDS DETAILADDED DETAIL SHEET FOR 46' MEDIAN GUIDERAIL TRANSITIONS -CHANGE MIN. DEFELCTION AREA DISTANCE TO 12' -CHANGED THE ANCHOR UNIT DETAILS.
901.10	2	TYPE 'A' SIGNS – WELDED STUD CONSTRUCTION -REVISED DETAILS AND CHANGED NOTES.
901.20	1	TYPE 'B' SIGNS – WELDED STUD CONSTRUCTION -REVISED DETAILS AND ADDED NOTE
901.30	1	VHB TAPE CONSTRUCTION – FOR TYPE 'A' SIGNS -REVISED DETAILSS AND ADDED NOTE
901.40	1	VHB TAPE CONSTRUCTION – FOR TYPE 'B' SIGNS -REVISED DETAIL AND ADDED NOTE
901.50	2	ARROWS AND SHIELDSREVISED TABLES
901.60	1	RIVET SPACING FOR OVERLAYED SIGNS -REVISED DETAILS

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